

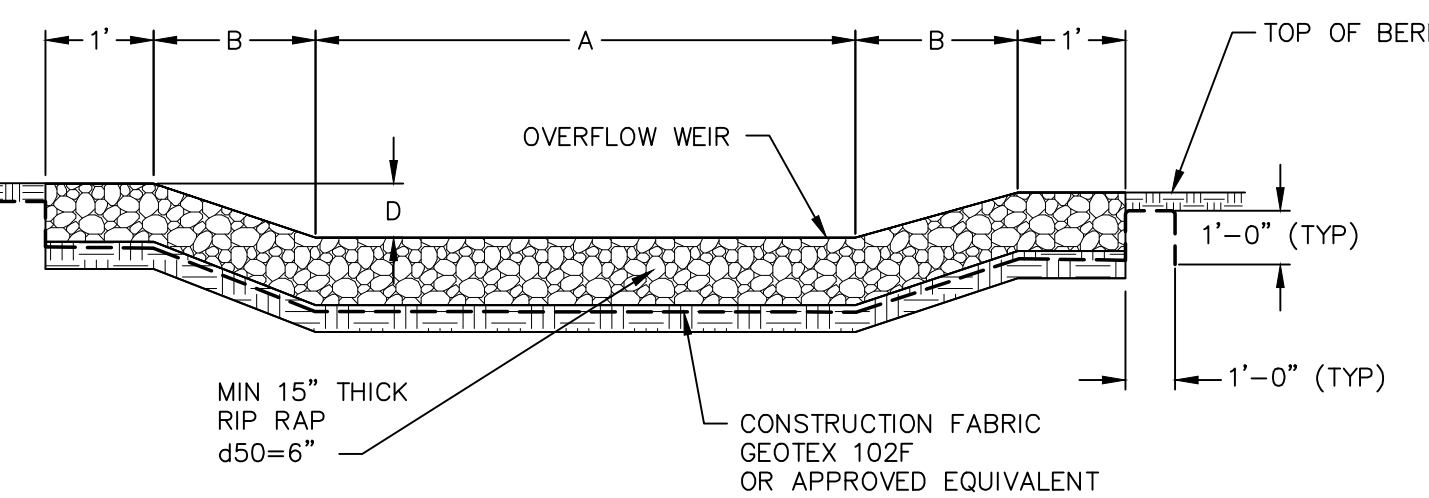
- NOTES:**
1. THE INFILTRATION BASIN SHALL NOT SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY.
 2. RELATIVELY LIGHT TRACKED EQUIPMENT IS RECOMMENDED FOR CONSTRUCTION PURPOSES TO AVOID EXCESSIVE SOIL COMPACTION.
 3. A HIGHLY POROUS SURFACE TEXTURE SHALL BE RETAINED ALONG THE BASIN FLOOR, ESPECIALLY WHERE THE AREA IDENTIFIED AS BEING USED FOR INFILTRATION.
 4. STABILIZATION OF THE BASIN FLOOR AND FLOOR TO PREVENT EROSION AND SLOUGHING AND TO PROVIDE A NATURAL MEANS OF MAINTAINING RELATIVELY HIGH INFILTRATION RATES IS REQUIRED OF THE FESCUE FAMILY (ALTA FESCUE, WESTERN FESCUE, OR RED FESCUE) AS SPECIFIED ON THIS PLAN. PRIMARILY DUE TO THEIR ADAPTABILITY TO DRY SANDY SOILS, DROUGHT RESISTANCE AND ABILITY TO TOLERATE NUTRIENT DEFICIENCY ARE MAJOR REASONS FOR LOW MAINTENANCE REQUIREMENTS OVER LONG INTERVALS BETWEEN MOWINGS, WHICH SHALL OCCUR TWICE PER YEAR MINIMUM, TYPICALLY IN JUNE AND SEPTEMBER IS SATISFACTORY.
 5. THE BASIN SHALL BE MAINTAINED COMPACTED AND OF SUCH MATERIAL TO PREVENT SEEPAGE.

STORMWATER MANHOLE DETAIL
NOT TO SCALE

NOTES:

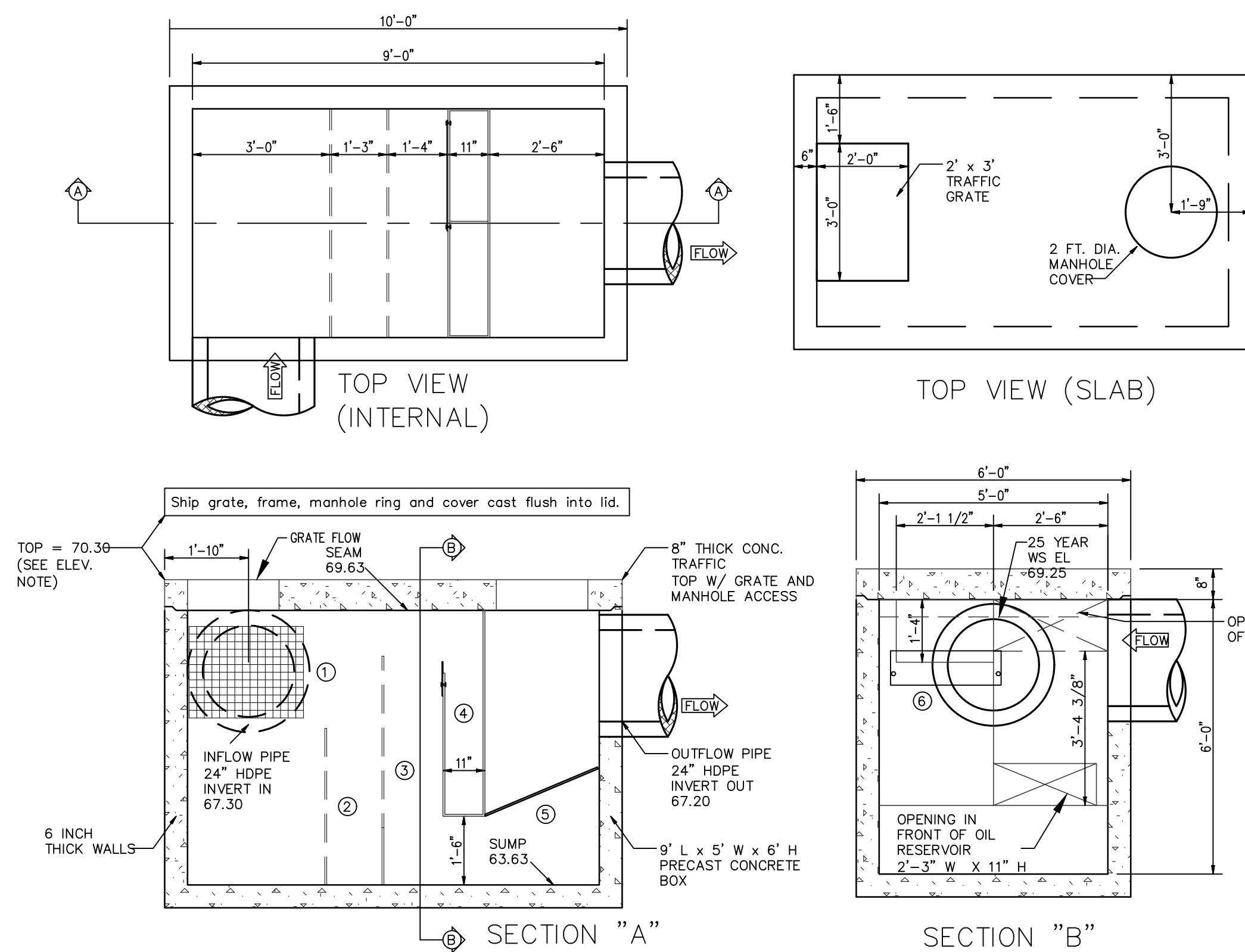
1. ALL TRASH RACKS SHALL HAVE UV PROTECTION MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D2565-99.
2. TRASH RACKS SHALL BE SECURED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. WHERE HIGH FLOW ORIFICE EXTENDS TO TOP OF STRUCTURE, THE MAXIMUM ALLOWABLE GAP BETWEEN THE TRASH RACKS SHALL BE 4"

INFILTRATION OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE



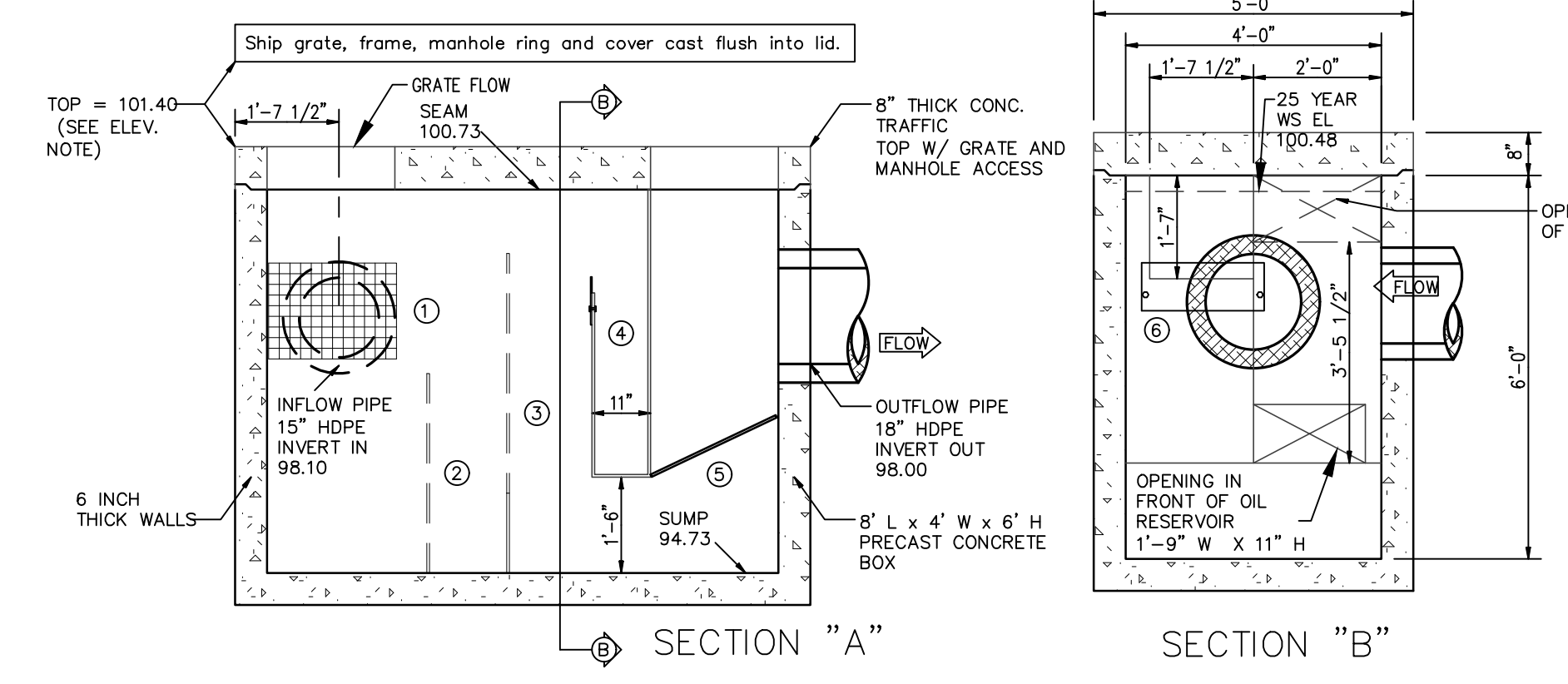
SWM ID	OVERFLOW WEIR ELEVATION (FT)	DIMENSION A (FT)	DIMENSION B (FT)	DIMENSION D (IN)
BIORETENTION AREA 1	99.0	15	3	12
BIORETENTION AREA 2	68.8	15	3	12
INFILTRATION BASIN 3	62.0	15	3	12

EMERGENCY OVERFLOW WEIR DETAIL
NOT TO SCALE



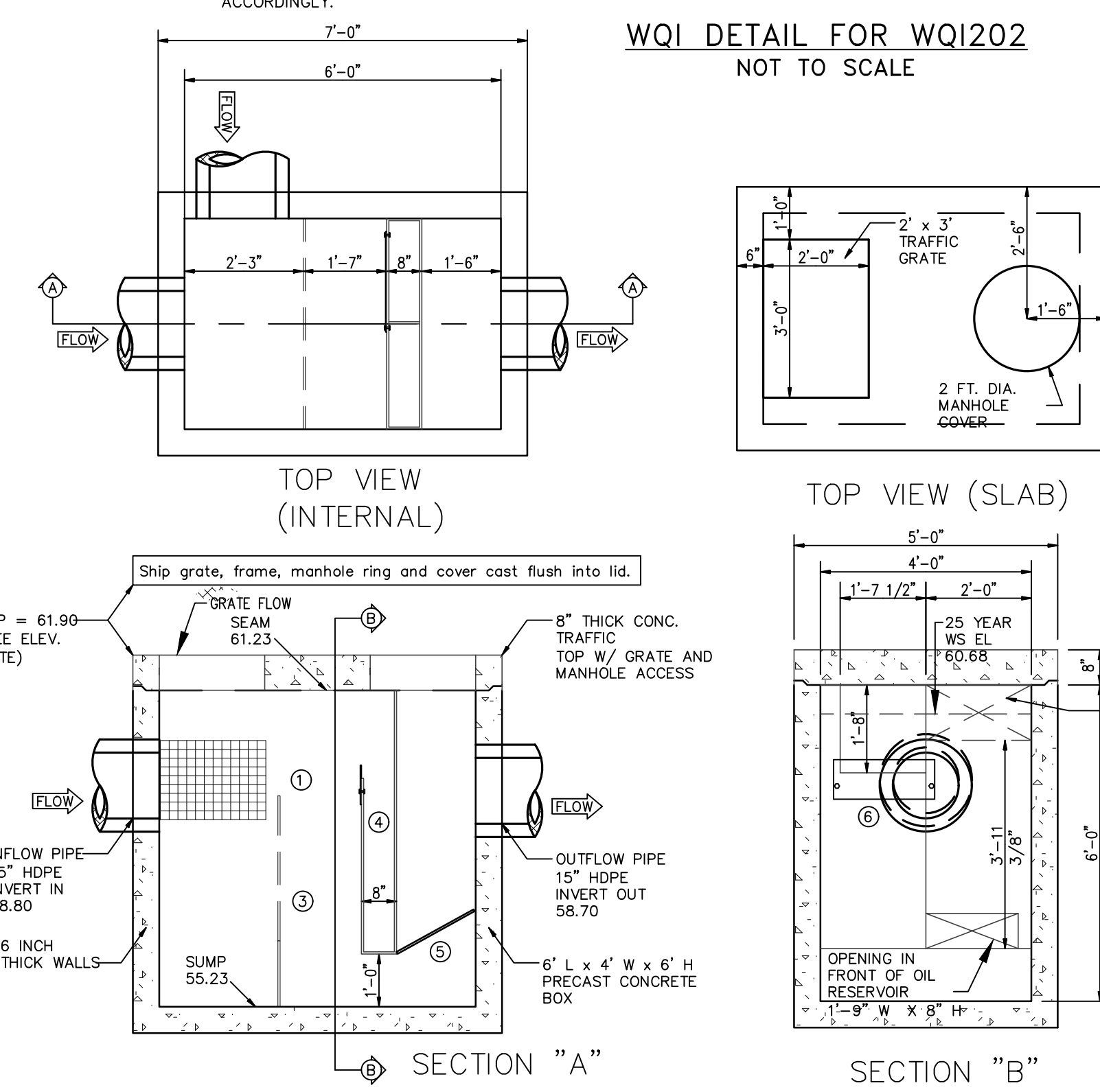
- NOTES:

CAST IRON STORMWATER FLAT INLET GRATE DETAIL
NOT TO SCALE



- NOTES:

WQI DETAIL FOR WQI101
NOT TO SCALE

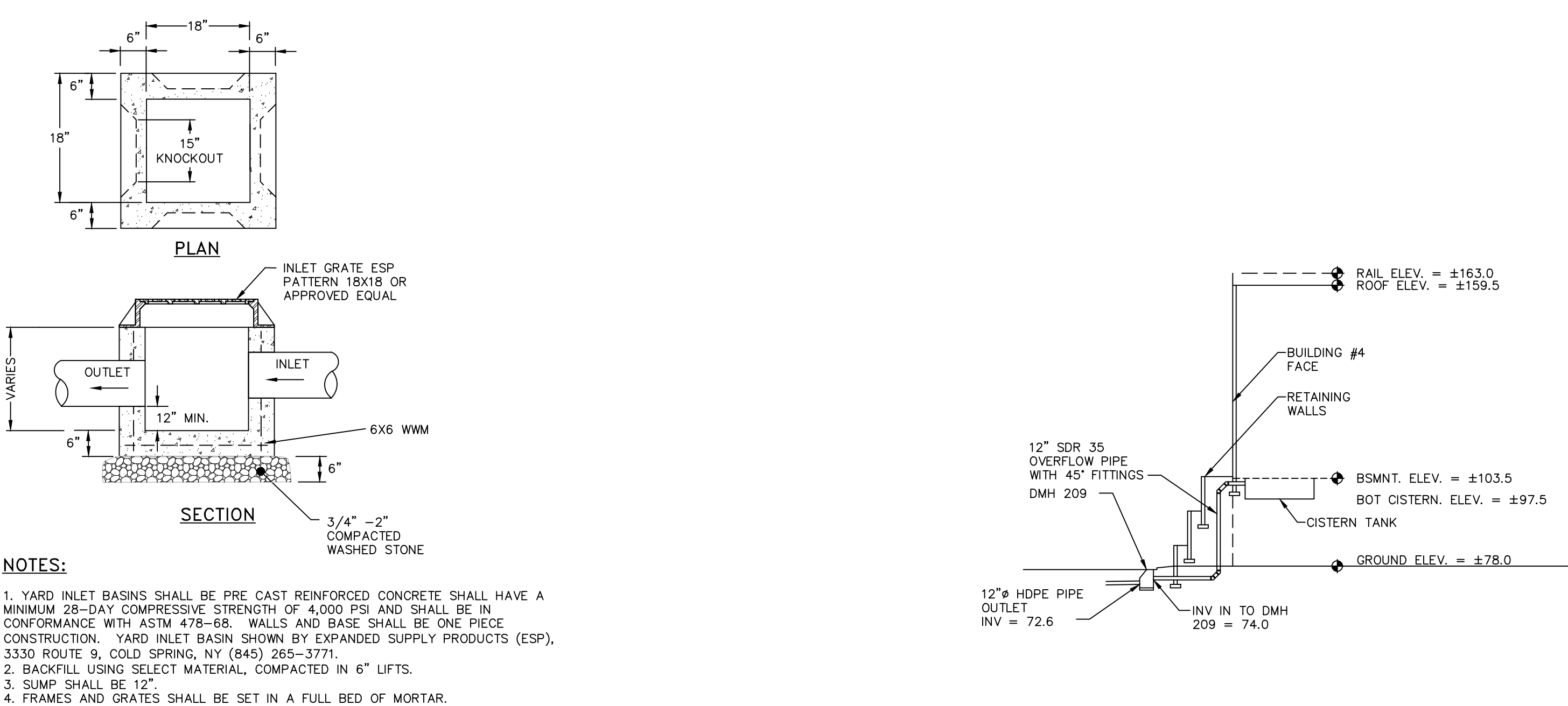


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OUTLET CONTROL STRUCTURE DATA										
DCS ID	STRUCTURE DIMENSIONS	LOW FLOW ORIFICE DIM. (IN)	"L" (FT)	HIGH FLOW ORIFICE DIM. (IN)	# OF HIGH FLOW INLETS	"H" (FT)	"I" (FT)	OUTLET PIPE (IN)	"OP" (FT)	HIGH FLOW ORIFICE TRASH RACK PART #
1	4'x4' ID	3	96.5	2.75" X 0.56"	1	97.9	98.8	18	94.00	020601
2	4'x4' ID	3	64.5	2.0" X 0.54"	1	65.6	68.5	24	62.00	020601

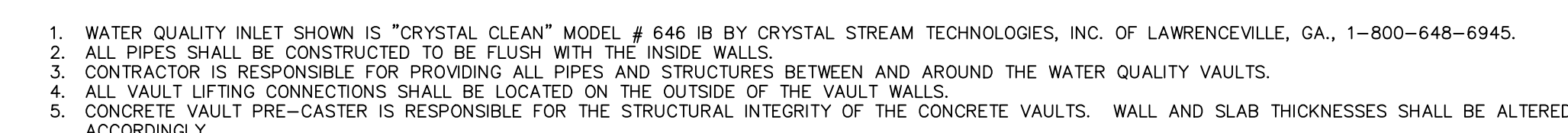
- NOTES:

BIORETENTION OUTLET CONTROL STRUCTURE DETAIL
NOT TO SCALE



- NOTES:**
1. YARD INLET BASINS SHALL BE PRE CAST REINFORCED CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND SHALL BE IN CONFORMANCE WITH ASTM 478-68. WALLS AND BASE SHALL BE ONE PIECE CONSTRUCTION. YARD INLET BASIN SHOWN BY EXPANDED SUPPLY PRODUCTS (ESP) 3330 ROUTE 9, COLD SPRING, NY (845) 265-3771.
 2. BACKFILL USING SELECT MATERIAL, COMPACTED IN 6" LIFTS.
 3. SUMP SHALL BE 12".
 4. FRAMES AND GRATES SHALL BE SET IN A FULL BED OF MORTAR.

CISTERN OUTLET DETAIL
SCALE: 1"=30'



- NOTES:**
1. WATER QUALITY INLET SHOWN IS "CRYSTAL CLEAN" MODEL # 646-B BY CRYSTAL STREAM TECHNOLOGIES, INC. OF LAWRENCEVILLE, GA., 1-800-648-6945.
 2. ALL PIPES SHALL BE CONSTRUCTED TO BE FLUSH WITH THE INSIDE WALLS.
 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPES AND STRUCTURES BETWEEN AND AROUND THE WATER QUALITY VAULTS.
 4. ALL VAULT LIFTING CONNECTIONS SHALL BE LOCATED ON THE OUTSIDE OF THE VAULT WALLS.
 5. CONCRETE VAULT PRE-CASTER IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE CONCRETE VAULTS. WALL AND SLAB THICKNESSES SHALL BE AS NOTED.

WQI DETAIL FOR WQI 301
NOT TO SCALE

RECOMMENDED FOR APPROVAL:

MAYOR OF THE CITY OF BEACON _____ DATE _____

APPROVED BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEACON

ON THE _____ DAY OF _____ 20____

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE _____ DAY OF _____, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION, ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20____, BY _____ CHAIRMAN _____ SECRETARY

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY

REVISIONS:			
NO.	DATE	DESCRIPTION	BY
2	2/28/17	PER PLANNING BOARD COMMENTS	CMB
3	3/28/17	PER PLANNING BOARD COMMENTS	CMB
3	4/25/17	NO CHANGE THIS SHEET	MAB
4	5/30/17	PER PLANNING BOARD COMMENTS	MAB
5	7/25/17	PER PLANNING BOARD COMMENTS	MAB
6	8/29/17	NO CHANGE THIS SHEET	MAB
7	9/26/17	PER PLANNING BOARD COMMENTS	MAB
8	10/13/17	NO CHANGE THIS SHEET	MAB
9	11/26/17	NO CHANGE THIS SHEET	MAB
10	06/26/18	REMOVED WQI 2089	MAB
11	7/31/18	NO CHANGE THIS SHEET	MAB
12	8/28/18	PER PLANNING BOARD COMMENTS	MAB

SEAL

JON D. BODENDORF, P.E.
NYS LICENSE NO. 076245
DANIEL G. KOEHLER, P.E.
NYS LICENSE NO. 082716

Special Use Permit Application
Stormwater Details
Sheet 14 of 15

Edgewater

Edgewater

Beacon, New York

Scale: As Noted
B-100-83-0015

December 22, 2016

Owner:
Scenic Beacon Development, LLC
25 E. Main Street
Beacon, NY 12508

Architect:
Aryeh Siegel, Architect
514 Main Street
Beacon, New York 12508

Site/Civil Engineer:
Hudson Land Design
174 Main Street
Beacon, New York 12508

Surveyor:
TEC Land Surveying
Main Street
Beacon, New York 12508

Beacon, New York